

# Michelle E Kimple

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

66 papers	1,796 citations	22 h-index	42 g-index
71 ext. papers	2,253 ext. citations	4.3 avg, IF	4.6 L-index

#	Paper	IF	Citations
66	A human pancreatic ECM hydrogel optimized for 3-D modeling of the islet microenvironment.. <i>Scientific Reports</i> , <b>2022</b> , 12, 7188	4.9	0
65	Pharmacological blockade of the EP3 prostaglandin E receptor in the setting of type 2 diabetes enhances $\beta$ cell proliferation and identity and relieves oxidative damage. <i>Molecular Metabolism</i> , <b>2021</b> , 54, 101347	8.8	2
64	Rat prostaglandin EP3 receptor is highly promiscuous and is the sole prostanoid receptor family member that regulates INS-1 (832/3) cell glucose-stimulated insulin secretion. <i>Pharmacology Research and Perspectives</i> , <b>2021</b> , 9, e00736	3.1	3
63	Human Islet Expression Levels of Prostaglandin E Synthetic Enzymes, But Not Prostaglandin EP3 Receptor, Are Positively Correlated with Markers of $\beta$ Cell Function and Mass in Nondiabetic Obesity. <i>ACS Pharmacology and Translational Science</i> , <b>2021</b> , 4, 1338-1348	5.9	2
62	The influence of intermittent hypoxia, obesity, and diabetes on male genitourinary anatomy and voiding physiology. <i>American Journal of Physiology - Renal Physiology</i> , <b>2021</b> , 321, F82-F92	4.3	1
61	Ultrahigh-Resolution Mass Spectrometry-Based Platform for Plasma Metabolomics Applied to Type 2 Diabetes Research. <i>Journal of Proteome Research</i> , <b>2021</b> , 20, 463-473	5.6	4
60	Agonist-independent $G_{12}$ activity negatively regulates beta-cell compensation in a diet-induced obesity model of type 2 diabetes. <i>Journal of Biological Chemistry</i> , <b>2021</b> , 296, 100056	5.4	5
59	Systemic Metabolic Alterations Correlate with Islet-Level Prostaglandin E Production and Signaling Mechanisms That Predict $\beta$ Cell Dysfunction in a Mouse Model of Type 2 Diabetes. <i>Metabolites</i> , <b>2021</b> , 11,	5.6	5
58	Prostaglandin EP3 receptor signaling is required to prevent insulin hypersecretion and metabolic dysfunction in a non-obese mouse model of insulin resistance. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2021</b> , 321, E479-E489	6	0
57	Differential Expression of Ormdl Genes in the Islets of Mice and Humans with Obesity. <i>IScience</i> , <b>2020</b> , 23, 101324	6.1	3
56	Loss of $\beta$ cell $G_{12}$ protects against high-fat diet induced glucose intolerance by preserving incretin responsiveness and enhancing insulin secretion. <i>FASEB Journal</i> , <b>2020</b> , 34, 1-1	0.9	
55	Beta-cell-specific Loss of the Inhibitory G protein, $G_{12}$ , has Sex-dependent Effects on Development and Pathophysiology of Type 1 Diabetes. <i>FASEB Journal</i> , <b>2020</b> , 34, 1-1	0.9	
54	Role of the heterotrimeric inhibitory G-protein, $G_{12}$ , and its unique G-protein coupled receptor, EP3, in the progression and pathophysiology of Type 2 Diabetes. <i>FASEB Journal</i> , <b>2019</b> , 33, 514.16	0.9	
53	Increasing the dietary ratio of omega 3:omega 6 polyunsaturated fatty acids positively impacts inflammation and islet outcomes in Type 1 Diabetes. <i>FASEB Journal</i> , <b>2019</b> , 33, 680.9	0.9	
52	Beta-cell-specific loss of the inhibitory G protein, $G_{12}$ , alters development and pathophysiology of Type 1 Diabetes. <i>FASEB Journal</i> , <b>2019</b> , 33, 680.14	0.9	
51	SAT-168 A Secreted Protein Complement 1q Like-3 Protein Inhibits Insulin Secretion by an Adhesion G-Protein Coupled Receptor, BAI3 in Pancreatic $\beta$ Cells. <i>Journal of the Endocrine Society</i> , <b>2019</b> , 3,	0.4	78
50	The inhibitory heterotrimeric G protein, $G_z$ , regulates alpha-cell active glucagon-like peptide 1 (GLP-1) levels. <i>FASEB Journal</i> , <b>2019</b> , 33, 809.3	0.9	

49	Targeting dysfunctional beta-cell signaling for the potential treatment of type 1 diabetes mellitus. <i>Experimental Biology and Medicine</i> , <b>2018</b> , 243, 586-591	3.7	8
48	Restoration of metabolic health by decreased consumption of branched-chain amino acids. <i>Journal of Physiology</i> , <b>2018</b> , 596, 623-645	3.9	142
47	Short-term methionine deprivation improves metabolic health via sexually dimorphic, mTORC1-independent mechanisms. <i>FASEB Journal</i> , <b>2018</b> , 32, 3471-3482	0.9	43
46	Beta-cell-specific loss of the inhibitory G protein, G $\beta$ , prevents development of Type 1 Diabetes in NOD mice.. <i>FASEB Journal</i> , <b>2018</b> , 32, 661.5	0.9	
45	Coordinated Cross-talk between calcium and cAMP in regulating pulsatile insulin secretion: A novel role for the unique inhibitory G-protein, G $\beta$ , in regulating $\beta$ cell function. <i>FASEB Journal</i> , <b>2018</b> , 32, 666.9	0.9	
44	Loss of the unique inhibitory G-protein, G $\beta$ , in the pancreatic $\beta$ cell protects against diet-induced glucose intolerance by enhancing insulin secretion, but is not $\beta$ cell autonomous. <i>FASEB Journal</i> , <b>2018</b> , 32, 661.9	0.9	
43	Age-Dependent Protection of Insulin Secretion in Diet Induced Obese Mice. <i>Scientific Reports</i> , <b>2018</b> , 8, 17814	4.9	11
42	Complement 1q-like-3 protein inhibits insulin secretion from pancreatic $\beta$ cells via the cell adhesion G protein-coupled receptor BAI3. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 18086-18098	5.4	16
41	Enriching Islet Phospholipids With Eicosapentaenoic Acid Reduces Prostaglandin E Signaling and Enhances Diabetic $\beta$ Cell Function. <i>Diabetes</i> , <b>2017</b> , 66, 1572-1585	0.9	25
40	The Inhibitory G Protein $\beta$ Subunit, G $\beta$ , Promotes Type 1 Diabetes-Like Pathophysiology in NOD Mice. <i>Endocrinology</i> , <b>2017</b> , 158, 1645-1658	4.8	13
39	Radiomanganese PET Detects Changes in Functional $\beta$ Cell Mass in Mouse Models of Diabetes. <i>Diabetes</i> , <b>2017</b> , 66, 2163-2174	0.9	26
38	Opposing effects of prostaglandin E receptors EP3 and EP4 on mouse and human $\beta$ cell survival and proliferation. <i>Molecular Metabolism</i> , <b>2017</b> , 6, 548-559	8.8	32
37	Dietary polyunsaturated fatty acids and their metabolites: Implications for diabetes pathophysiology, prevention, and treatment. <i>Nutrition and Healthy Aging</i> , <b>2017</b> , 4, 127-140	1.3	7
36	EPAC-RAP1 Axis-Mediated Switch in the Response of Primary and Metastatic Melanoma to Cyclic AMP. <i>Molecular Cancer Research</i> , <b>2017</b> , 15, 1792-1802	6.6	13
35	The EP3 Receptor/G Signaling Axis as a Therapeutic Target for Diabetes and Cardiovascular Disease. <i>AAPS Journal</i> , <b>2017</b> , 19, 1276-1283	3.7	9
34	Synergy Between G $\beta$ Deficiency and GLP-1 Analog Treatment in Preserving Functional $\beta$ Cell Mass in Experimental Diabetes. <i>Molecular Endocrinology</i> , <b>2016</b> , 30, 543-56		19
33	Pancreatic $\beta$ Cells From Mice Offset Age-Associated Mitochondrial Deficiency With Reduced KATP Channel Activity. <i>Diabetes</i> , <b>2016</b> , 65, 2700-10	0.9	40
32	Decreased Consumption of Branched-Chain Amino Acids Improves Metabolic Health. <i>Cell Reports</i> , <b>2016</b> , 16, 520-530	10.6	209

31	Bombesin Preserves Goblet Cell Resistin-Like Molecule During Parenteral Nutrition but Not Other Goblet Cell Products. <i>Journal of Parenteral and Enteral Nutrition</i> , <b>2016</b> , 40, 1042-9	4.2	5
30	Platelet Dysfunction in Type 1 Diabetes: Stressing the Thromboxanes. <i>Diabetes</i> , <b>2016</b> , 65, 349-51	0.9	9
29	Alternative rapamycin treatment regimens mitigate the impact of rapamycin on glucose homeostasis and the immune system. <i>Aging Cell</i> , <b>2016</b> , 15, 28-38	9.9	112
28	Phenotypic Characterization of MIP-CreERT1Lphi Mice With Transgene-Driven Islet Expression of Human Growth Hormone. <i>Diabetes</i> , <b>2015</b> , 64, 3798-807	0.9	62
27	Glucagon-Like Peptide-1 Regulates Cholecystokinin Production in $\beta$ Cells to Protect From Apoptosis. <i>Molecular Endocrinology</i> , <b>2015</b> , 29, 978-87		40
26	Spontaneous Tumor Lysis Syndrome: A Case Report and Critical Evaluation of Current Diagnostic Criteria and Optimal Treatment Regimens. <i>Journal of Investigative Medicine High Impact Case Reports</i> , <b>2015</b> , 3, 2324709615603199	1.2	20
25	A single-islet microplate assay to measure mouse and human islet insulin secretion. <i>Islets</i> , <b>2015</b> , 7, e1076607		20
24	The gastrin-releasing peptide analog bombesin preserves exocrine and endocrine pancreas morphology and function during parenteral nutrition. <i>American Journal of Physiology - Renal Physiology</i> , <b>2015</b> , 309, G431-42	5.1	6
23	Mimicking the Diabetic State in the Non-Diabetic $\beta$ cell to Elucidate Critical Pathways in $\beta$ cell Dysfunction. <i>FASEB Journal</i> , <b>2015</b> , 29, 974.16	0.9	
22	The Inhibitory G-protein, Gz, Accelerates the Progression of Insulinitis and Hyperglycemia in a Type 1 Diabetes Mouse Model. <i>FASEB Journal</i> , <b>2015</b> , 29, 973.1	0.9	
21	Inhibitory G proteins and their receptors: emerging therapeutic targets for obesity and diabetes. <i>Experimental and Molecular Medicine</i> , <b>2014</b> , 46, e102	12.8	37
20	A method for mouse pancreatic islet isolation and intracellular cAMP determination. <i>Journal of Visualized Experiments</i> , <b>2014</b> , e50374	1.6	37
19	Elucidating the role of inhibitory G-protein, Gz, in $\beta$ cell preservation and regeneration (1062.3). <i>FASEB Journal</i> , <b>2014</b> , 28, 1062.3	0.9	
18	Altering beta-cell phospholipid composition affects diabetic beta-cell dysfunction (796.15). <i>FASEB Journal</i> , <b>2014</b> , 28, 796.15	0.9	
17	Overview of affinity tags for protein purification. <i>Current Protocols in Protein Science</i> , <b>2013</b> , 73, 9.9.1-9.9.33		141
16	Tcf19 is a novel islet factor necessary for proliferation and survival in the INS-1 $\beta$ cell line. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2013</b> , 305, E600-10	6	27
15	Prostaglandin E2 receptor, EP3, is induced in diabetic islets and negatively regulates glucose- and hormone-stimulated insulin secretion. <i>Diabetes</i> , <b>2013</b> , 62, 1904-12	0.9	76
14	The EP3 Receptor: Exploring a New Target for Type 2 Diabetes Therapeutics <b>2013</b> , 1,		4

13	Identification of key signaling molecules downstream of cAMP that regulate insulin secretion. <i>FASEB Journal</i> , <b>2013</b> , 27, 1031-24	0.9	
12	Deletion of G $\alpha$ protein protects against diet-induced glucose intolerance via expansion of $\beta$ cell mass. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 20344-55	5.4	28
11	The effects of G $\alpha$ signaling on pancreatic $\beta$ cell function and mass. <i>FASEB Journal</i> , <b>2012</b> , 26, 615-7	0.9	1
10	Signaling Through G $\alpha$ <b>2010</b> , 1649-1653		3
9	Rap1 promotes multiple pancreatic islet cell functions and signals through mammalian target of rapamycin complex 1 to enhance proliferation. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 15777-85	5.4	26
8	Galphaz negatively regulates insulin secretion and glucose clearance. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 4560-7	5.4	33
7	Involvement of a mitochondrial phosphatase in the regulation of ATP production and insulin secretion in pancreatic beta cells. <i>Molecular Cell</i> , <b>2005</b> , 19, 197-207	17.6	120
6	A role for G(z) in pancreatic islet beta-cell biology. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 31708-13	5.4	32
5	Overview of affinity tags for protein purification. <i>Current Protocols in Protein Science</i> , <b>2004</b> , Chapter 9, Unit 9.9	3.1	20
4	Structural determinants for GoLoco-induced inhibition of nucleotide release by Galpha subunits. <i>Nature</i> , <b>2002</b> , 416, 878-81	50.4	218
3	Affinity Tag for Protein Purification and Detection Based on the Disulfide-Linked Complex of InaD and NorpA. <i>BioTechniques</i> , <b>2002</b> , 33, 578-590	2.5	
2	Differential Effects of Prostaglandin E <sub>2</sub> Production and Signaling through the Prostaglandin EP <sub>3</sub> Receptor on Human Beta-cell Compensation		2
1	Prostaglandin EP <sub>3</sub> Receptor signaling is required to prevent insulin hypersecretion and metabolic dysfunction in a non-obese mouse model of insulin resistance		1